



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

November 10, 2008

David W. Wasiela, P.E..
ESP Associates, P.A.
PO Box 7030
Charlotte, NC 28241

RE: Application for Permit Renewal
McArtan Site – LCID landfill
Harnett County
Additional Information Request
Permit No. 43-E
Tracking #6205

Dear Mr. Wasiela:

The above referenced permit renewal application for the continued operation of the McArtan LCID landfill in Harnett County has been submitted by ESP Associates, P.A. on behalf of Barnhill Contracting Company. The application and maps were received by the Solid Waste Section on September 26, 2008. There are several items in the application and previous documentation that require clarification and/or revision before the review can be completed. Please respond to the following questions and comments:

LCID Permit Renewal Request – September 22, 2008
Sheet No's 1-5 – September 22, 2008
Sheet C-1 – Crawford Design Co – February 15, 2002

Page 1, first paragraph of the permit renewal request states-in-part: *"Our permit renewal application is based on the previous approved plans prepared by Crawford Design Company"*.

Sheets 4 and 5 ("remaining landfill capacity cross sections") compared to cross sections on Sheet C- (Crawford Design Co. – dated 2/2/2002) depict some differences:

- The seasonal high water table was depicted on Sheet C at elevation 105.5, but is not shown on the Sheets 4 and 5. Modify Sheets 4 and 5 by depicting the seasonal high water table.

- Sheet C depicts areas of “required earth fill” near the lowest elevation areas on cross sections A-A’, B-B’, and C-C’, in order to meet the 4’ vertical separation requirement between the bottom of the proposed LCID waste and the seasonal high water table (depicted at elevation – 105.5). Sheets 4 and 5 do not show these same areas of “required earth fill”. Sheets 4 and 5 cross sections also depict some differences in “existing ground” elevation when compared to the older cross sections on Sheet C. Also, these cross sections (Sheet C) show that a 4 feet vertical separation is to be maintained. Have these areas of “required earth fill” depicted on Sheet C been added to the site since Sheet C was drawn in February 2002? Please modify the maps (Sheets 4 and 5) accordingly.
- Some of the existing ground grades depicted on the current drawings are different compared to Sheet C (2002). The existing ground elevations depicted on the current drawings (Sheets 1,2,3,4, and 5) are a few feet lower in elevation, such as the northeast section of the landfill and a few feet higher in the lower section (i.e. cross section A-A’ - from stations 1+00 to 3 + 35) than previously noted on Sheet C. Please revise all drawings to depict actual existing ground elevations prior to any soil / earth excavations or deposition of clean fill, earth fill, and LCID fill. Also, revise appropriate drawings and cross sections with symbols and legends to depict actual areas of soil excavation, areas of clean fill, “required earth fill” (as noted above), and areas where LCID has been added.
- On April 17, 2002, a LCID Permit to Construct was issued by the Solid Waste Section for Phase 1, only. Also, Phase 1 and Phase 2 were depicted on Drawing C-1. Phase 1 and Phase 2 are not depicted on the plans (Sheets) provided with the permit renewal request; therefore, please update maps to depict both Phases 1 and 2.
- Sheet numbers 3 – 5 and Page 2 of the letter state that the remaining total capacity of the landfill is 127,090 cubic yards. Page 2 of the letter also states that a net airspace for actual disposal of LCID is 70,000 cubic yards. How much actual cubic yards of LCID waste has been applied since waste disposal activities commenced?

How much actual net airspace in cubic yards remains for Phase 1?

On page 2 of your letter, you mention that the remaining site life for “*the approved landfill footprint and plans has a remaining life of approximately 14 years*”. *The landfill is proposed to operate within the same boundaries as previously approved.* What is the remaining site life for Phase 1?

The permit renewal request does not mention either Phase 1 or Phase 2. Is it the permittee's intent to request a permit renewal for just Phase 1?

*The LCID Permit to Construct was issued April 17, 2002, by the Solid Waste for Phase 1 and the criteria mention under Section 8 (a through f) of this permit pertained to conditions prior to the issuance of the Permit to Operate. I cannot locate the responses to these conditions (8a through 8f). Please provide documentation. Also, if there is a subsequent, "Permit to Operate", provide the document.

*Note: A copy of the Permit to Construct for Phase 1 is attached in pdf format. The document is named McArtan Mine LCID PTC-1st Phase 4-17-02-Tracking No. 6202

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Please note the comments and questions raised above and provide additional information and revisions as needed. If you have any questions or wish to schedule a meeting to discuss the items referenced in this letter, please call me at 919-508-8524.

Sincerely,



Brian Wootton
Hydrogeologist
Solid Waste Section

cc:	Steve Waters, Env. Manager	Barnhill Contracting Company
	Ed Mussler, P.E.	Solid Waste Section
	Drew Hammonds	Solid Waste Section
	Jeff Skabo	Solid Waste Section